

AMENDMENTS TO THE CLAIMS

The following is a complete listing of the claims that replaces all previous versions.

1. (Currently amended) A method of producing resistant starch comprising:

- (a) selecting a reaction temperature of about 140°C to about 180°C;
- (b) acidifying unmodified starch to a selected pH of about 1 to about 4 with hydrochloric acid, wherein said selected pH is optimum to convert said unmodified starch to resistant starch when at said reaction temperature;
- (c) heating said acidified unmodified starch to said reaction temperature; and
- (d) maintaining said acidified unmodified starch close to said reaction temperature until a maximized maximum yield of resistant starch has been obtained while maintaining a whiteness level between about 60 and about 100.

2. (Canceled)

3. (Original) The method of claim 1, wherein said unmodified starch of step (b) is acidified with aqueous hydrochloric acid.

4. (Original) The method of claim 1, wherein said unmodified starch of step (b) is acidified with gaseous hydrochloric acid.

5. (Canceled)

6. (Original) The method of claim 1, wherein said optimal pH of acidified unmodified starch of step (b) is between about 2 and about 3.

7. (Original) The method of claim 1, wherein said optimal pH of acidified unmodified starch of step (b) is about 2.4.

8. (Canceled)

9. (Original) The method of claim 1, wherein said reaction temperature is between about 160°C and about 175°C.
10. (Original) The method of claim 1, wherein said reaction temperature is about 170°C.
11. (Canceled)
12. (Original) The method of claim 1, wherein said whiteness level is between about 65 and about 100.
13. (Previously presented) The method of claim 1, wherein a moisture content of said unmodified starch is between about 2% and about 6%.
14. (Previously presented) The method of claim 1, wherein said unmodified starch is acidified before a moisture content is reduced to between about 2% and about 6%.
15. (Currently amended) The method of claim 1, wherein said maximized percentage yield of said resistant starch is greater than about 50%.
16. (Currently amended) The method of claim 1, wherein said maximized yield of said resistant starch is greater than about 60%.
17. (Canceled)
18. (Original) The method of claim 1, wherein:
 - said reaction temperature is between about 160°C and about 175°C ;
 - said pH is between about 2 and about 3; and
 - said whiteness level is between about 65 and about 100.
19. (Original) The method of claim 1, wherein:
 - said reaction temperature is about 170°C;
 - said pH is about 2.4; and
 - said whiteness level is between about 65 and about 100.

20. (Original) The method of claim 1, wherein:

said starch has a moisture content of about 4% and is acidified with gaseous hydrochloric acid to a pH of about 2.4;

said reaction temperature is about 160°C; and

said whiteness level is between about 65 and about 100.

21. (Previously presented) The method of claim 1, wherein said unmodified starch is derived from corn.

22. (Previously presented) The method of claim 1, wherein said unmodified starch is derived from potatoes, rice, casava, or wheat.

23. (Previously presented) The method of claim 1, further comprising:

(e) manufacturing a food product from said resistant starch.

24. (Currently amended) A method of producing resistant starch comprising:

(a) acidifying unmodified starch to a pH of about 1 to about 4 and a reaction temperature of about 140°C to about 180°C with hydrochloric acid, wherein said pH is selected relative to said reaction temperature such that said pH may be optimum thereto to convert said unmodified starch to resistant starch when at said reaction temperature;

(b) heating said acidified unmodified starch to said reaction temperature; and

(c) maintaining said acidified unmodified starch close to said reaction temperature such that a maximized maximum yield of resistant starch may be obtained while maintaining a whiteness level between about 60 and about 100.

25. (Canceled)

26. (Currently amended) The method of claim 24, wherein said maximized maximum yield of resistant starch of step (c) is obtained while maintaining a whiteness level between about 65 60 and about 100.

27. (Currently amended) A resistant starch formed from a process comprising:

(a) acidifying unmodified starch to a pH of about 1 to about 4 and a reaction temperature of about 140°C to about 180°C with hydrochloric acid, wherein said pH is selected relative to said reaction temperature such that said pH may be optimum thereto to convert said unmodified starch to resistant starch when at said reaction temperature;

(b) heating said acidified unmodified starch to said reaction temperature; and

(c) maintaining said acidified unmodified starch close to said reaction temperature such that a maximized ~~maximum~~-yield of resistant starch may be obtained while maintaining a whiteness level between about 60 and about 100.